OOK

lth	Depth 6	Contents 7	Reference to last Measurement 8
	31494		
	125976		
	204711		
	30000		
	3149		
	16773		
	412103		

First & Final Bill

Work code NO:- 009-16-000025

SBRNO:- 23/17-18

10/05/17

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 195362

Serial No.....

Name of work..... maintance of BBMP Drilled Borewells in ward No-09. Vidyaranyapura Sub-division. From..... To.....

Name of Contractor of nature of Agency... Sri. Madhusudan. R.

Date of commencement of work..... BRNO: 170/30/6/17

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Work code NO:-	009-16-000025.					
	Head of Account:-	P1771.					
	Estimated cost :-	15.00 Lakhs					
	Administrative Approval NO:-	AS/CE(YNK)/77/15-16.				Dt 14-12-2015.	
	Technical Sanction NO:-	TS/EE(BTP)/242/15-16.				Dt 14-12-2015.	
	Work order NO:-	BBMP/EE/BTP/WO/344/2015-16.				Dt 30-03-2016.	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) Lifting of Submersible pump set as per specification and direction etc complete and as per the directions of the Engineer.	32 nos @ Rs 850.00				Rs 27200.00	
	2) Transportation of pumping machineries etc, complete and as per the directions of the Engineer.	32 nos @ Rs 900.00				Rs 28800.00	
	3) Labour charges (cover hauling) etc, complete and as per the directions of the Engineer	32 nos @ Rs 550.00				Rs 17600.00	
	4) Repairs to motor Rewinding of Submersible pump sets with copper insulation wire of suitable gauge as per ISI specifications with guarantee of 6 months (Above 10HP upto 20HP and Rs 150/- for						

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	3
	5) Starter (with one year the Engineer
	6) Rotor (with one year Engineer.
	7) Upper Flange etc. com

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
			er Specification and direction etc. e Engineer.
			RS 27200.00
			ete, complete and as per the
			RS 28800.00
			and as per the directions of the
			RS 17600.00
			e pump sets with copper insulation pecifications with guarantee of 6 months

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 195363

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		32 nos @ RS 4750.00				RS 152000.00	
	5) Starter (with one year Guarantee) etc, complete and as per the directions of the Engineer	32 nos @ RS 5050.00				RS 161600.00	
	6) Rotor (with one year Guarantee) etc, complete and as per the directions of Engineer.	32 nos @ RS 4700.00				RS 150400.00	
	7) Upper Flange etc, complete and as per the directions of the Engineer.	32 nos @ RS 350.00				RS 11200.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	8) Lower Housing etc, complete and as per the directions of the engineer						
	32 nos @ Rs 650.00					Rs 20800.00	
	9) Carbon Housing etc, complete and as per the directions of the engineer						
	32 nos @ Rs 475.00					Rs 15200.00	
	10) Thrust bearing block assembly complete with Segment bearing pad etc, complete and as per the directions of the Engineer.						
	32 nos @ Rs 1150.00					Rs 36800.00	
	11) Oil seal etc, complete and as per the directions of the Engineer						
	32 nos @ Rs 125.00					Rs 4000.00	
	12) Oil Seal Steel Bush etc, complete and as per the directions of the Engineer						
	32 nos @ Rs 150.00					Rs 4800.00	

Serial No.....

Name of work.....

Name of Contractor of nature of Agenc

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	13) Guide vane etc, com
	14) Impeller shell moulde directions of the En
	15) Dischaoge outlet (D. directions of the

OK

th	Depth 6	Contents 7	Reference to last Measurement 8
		e directions of the engineer	RS 20800.00
		the directions of the engineer	RS 15200.00
		with segment bearing pad etc the Engineer.	RS 368000.00
		rections of the Engineer	RS 4000.00
		per the directions of the	RS 4800.00

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 195364

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
13)	Guide vane etc, complete and as per the directions of the Engineer.	5 Nos	@ RS 175.00			RS 89250.00	
14)	Impeller shell moulded with aluminium Bronze) etc complete and as per the directions of the Engineer	5 Nos	@ RS 405.00			RS 206550.00	
15)	Dischaorge outlet (D.O) Bearing D.O steel Bush etc. complete and as per the directions of the Engineer.	32 Nos	@ RS 445.00			RS 14240.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	16) Steel Bush etc. complete and as Per the directions of the Engineer.						
		32 Nos @ Rs 150.00				Rs 4800.00	
	17) Pump shaft made out of Stainless Steel centreless ground with key way (upto 8 stages) etc. complete and as Per the directions of the Engineer.						
		32 Nos @ Rs 850.00				Rs 27200.00	
	18) Non-return valve (NRV) assembly complete with rubber 'O' Ring etc, complete and as per the directions of the Engineer.						
		32 Nos @ Rs 1050.00				Rs 33600.00	
	19) Cable Guard etc. complete and as Per the directions of the Engineer.						
		32 Nos @ Rs 150.00				Rs 4800.00	
	20) Brass Filter etc, complete and as Per the directions of the Engineer						
		32 Nos @ Rs 250.00				Rs 8000.00	

Serial No.....

Name of work.....

Name of Contractor of nature of Ager

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	21) Re-erection charges Pointing etc, comple
	22) Supplying of ISI ma electric resistance we Hot finished welded Per IS 554/1986 with other end protected

epth 6	Contents 7	Reference to last Measurement 8
s of the Engineer.		Rs 4800.00
ess ground with key way ections of the Engineer.		Rs 27200.00
rubber'd Ring etc, complete		Rs 33600.00
s of the Engineer.		Rs 4800.00
s of the Engineer		Rs 8000.00

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 195365

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
21)	Re-erection charges of pumping machineries including overhauling and pointing etc, complete and as per the directions of the engineer.	32 nos @ Rs 950.00				Rs 30400.00	
22)	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends Per IS 554/1986 with latest amendments, Pipes threaded flush at one end and the other end protected as per specification.	100.00 Rmt @ Rs 355.00				Rs 35500.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
23)	Heavy Duty Collar 50mm ø etc. complete and as per the directions of the engineer	30 nos	@ Rs 130.00			Rs 3900.00	
24)	Supplying and drawing 3 core flat pve sheathed Submersible Pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS: 8130-1984 and virgin grade pve insulation and sheathed suitable for working voltage upto etc	1	30.00			= 30.00 mtr	
		1	28.00			= 28.00 mtr	
		1	30.00			= 30.00 mtr	
		1	28.00			= 28.00 mtr	
		1	20.00			= 20.00 mtr	
		1	25.00			= 25.00 mtr	
		1	22.00			= 22.00 mtr	
		1	26.00			= 26.00 mtr	
		1	24.00			= 24.00 mtr	
		1	25.00			= 25.00 mtr	

Serial No.....

Name of work.....

Name of Contractor of nature of A

Date of commencement of work...

Date	Full description, etc, of wo
1	2
25)	Supplying of LT sheathed, galvan sheathing 1.1kV directions).

th	Contents 7	Reference to last Measurement 8
per the directions of the		RS 3900.00
Submersible Pump Cable		
with flexible copper conductor		
d virgin grade pvc insulation		
etc.		
=	30.00 mtr	
=	25.00 mtr	
=	30.00 mtr	
=	28.00 mtr	
=	20.00 mtr	
=	25.00 mtr	
=	22.00 mtr	
=	26.00 mtr	
=	24.00 mtr	
=	25.00 mtr	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 195366

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	30.00		=	30.00 mtr	
		1	18.00		=	18.00 mtr	
					Total =	303.00 mtr	
		Qty limited to Tender			=	300.00 mtr	
		@ RS	135.00				RS 40500.00
25)	Supplying of LT UG cable having aluminium conductor pvc insulated sheathed, galvanised steel, wire/steel tap armoured cable with pvc outer sheathing 1.1kV class 2.5 sq mm 4 core 16 sqmm. etc. complete and as per the directions.	1	30.00		=	30.00 mtr	
		1	20.00		=	20.00 mtr	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Total =	50.00 mtr	
			@ Rs 140.00			Rs 7000.00	
26)	Labour charges for laying of 1.1 KV class UG cable (PWD electrical SR) in existing trench/conduct (6 seam to 16 seam) complete and as per the directions	1	30.00		= 30.00 mtr		
		1	20.00		= 20.00 mtr		
					Total =	50.00 mtr	
			@ Rs 10.00			Rs 500.00	
27)	Digging or trenching of 0.6 mt deep 20 cm wide refilling the trench to the required ground level and consolidating etc.	1	30.00		= 30.00 mtr		
		1	10.00		= 10.00 mtr		
					Total =	40.00 mtr	
			@ Rs 85.00			Rs 3400.00	

Serial No.....

Name of work.....

Name of Contractor of natu

Date of commencement of

Date	Full description, et
1	2
28)	Supplying and not less than arrangements 40 mm ϕ
29)	Supplying an filled with Clamps. Bolts 16 seam

Contents 7	Reference to last Measurement 8
0.00 mtr	
	Rs 7000.00
ND electrical SR)	
and as per the	
0.00 mtr	
.00 mtr	
0.00 mtr	
	Rs 500.00
ng the trench for the	
0.00 mtr	
.00 mtr	
0.00 mtr	
	Rs 3400.00

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10

195367

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
28)	Supplying and fixing of class A (midium duty) GI Pipe of wall thickness not less than 3.25mm on pole/wall/trench crossing with necessary clamping arrangements for UG cable of 1.1 KV class etc complete 40mm dia	5	4.00			= 20.00 mtr	
			@ Rs 345.00				Rs 6900.00
29)	Supplying and fixing L.T cast iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumen (insulating compound complete with terminal clamps, bolts nuts and washers etc complete 16 sq mm	8 nos	@ Rs 280.00				Rs 2240.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
30)	Supplying and fixing wooden Panel using 32 Amps	20 x 6				= 120.0 Nos	
		@ Rs 170.00					Rs 20400.00
31)	providing and fixing in position 80mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials labour and T&P of equipments with all leads etc.	8 Nos @ Rs 1579.00					Rs 12632.00
32)	providing WP/CP waste covers conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work 80mmφ	4 Nos @ Rs 227.00					Rs 908.00

Serial No.....

Name of work.....

Name of Contractor of nature of Ag

Date of commencement of work....

Date	Full description, etc, of work
1	2
33)	Fabrication supp... wall mounting, ful... -pation, provided ... locking arrangeme... 16 Swgn

OK

	Depth 6	Contents 7	Reference to last Measurement 8
annel with cut out on existing and wather etc		= 120.0 Nos	Rs 20400.00
ominal bore gun metal nonreturn including cost of all materials leads etc			Rs 12632.00
to ISI specifications and fixing ing cost of materials. fixtures			Rs 908.00

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 195368

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
33)	Fabrication supplying and mounting MS box of 16 SWG suitable for floor wall mounting, fully weather proof with provision for better heat dissi-pation, provided with hinged front cover, equipped with tamper proof locking arrangements with suitable size clamps with necessary cable 16 SWG	1 S x 2	120.00	60.00		= 216000.00 SECn	
		1 S	360.00	25.00		= 135000.00 SECn	
			0-18			Total = 351000.00 SECn.	63 18
		e Rs	0-33			Rs 115830.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
34)	Earth work excavation for pipeline trenches including depositing or bank upto a lead of 50 mtr including shoring and staffing danger lighting and using Site rails and booming poles at every 100 mtr wherever necessary as directed in the following Structure manhole etc						
		4	30.00	0.60	0.75 =	54.00 Cum	
		1	12.80	0.60	0.75 =	5.76 Cum	
		3	30.00	0.60	0.75 =	40.50 Cum	
		3	30.00	0.75	0.75 =	40.50 Cum	
		1	24.30	0.60	0.75 =	10.94 Cum	
		1	15.00	0.60	0.75 =	6.75 Cum	
		2	30.00	0.60	0.75 =	27.00 Cum	
					Total =	185.45 Cum	
						Qty limited to Tender = 180.00 Cum	
					@ Rs 188.00 180.00		Rs 33840.00

Serial No.....

Name of work.....

Name of Contractor of nature of A

Date of commencement of work.

Date	Full description, etc, of wo
1	2
35)	Providing and in Pipes and Speci to line, level an jointing excep grave or selecte 75mm ϕ HSC pve

	Contents 7	Reference to last Measurement 8
	ncluding depositing or and Stacking danger Poles at every 100mtr g Structure manhole etc	
=	54.00 Cum	
=	5.76 Cum	
=	40.50 Cum	
=	40.50 Cum	
=	10.94 Cum	
=	6.75 Cum	
=	27.00 Cum	
=	185.45 Cum	
=	180.00 Cum	
		Rs 33840.00

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 195369

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
						Rs	27000.00
35)	Providing and instation at site of work pvc pipes including cost of pipes and specials and including lowering into trenches laying true to line, level and perfect linking at joints leak proof including jointing encasing the pipe around to a depth not less than 15cm with grave or selected earth available from the excavation.						
	75mm ϕ 6 KSC pvc pipe	4	30.00			= 120.00 Rmt	
		1	12.80			= 12.80 Rmt	
		3	30.00			= 90.00 Rmt	
		1	24.30			= 24.30 Rmt	
		3	30.00			= 90.00 Rmt	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	15.00		=	15.00 Rmt	
		2	30.00		=	60.00 Rmt	
					Total =	412.00 Rmt	
		Qty limited to Tender			=	400.00 Rmt	
		@ Rs	105.00			Rs	42000.00
	36) Refilling the basement and pipeline trenches with selected available earth for trench excavation including authority condition in layers from theri including dispensary of the sundry earth with a heavy 200mtrs etc.						
		Qty vide Item No-34			=	180.00Cum	
		@ Rs	51.00			Rs	9180.00

Serial No.....

Name of work.....

Name of Contractor of nature

Date of commencement of wo

Date	Full description, etc, of
1	2
37)	providing and approved quali materials. Labo

C & F

ಸಹಾಯಕ ಕಾರ್ಯ
ವಿದ್ಯಾರಣ್ಯಪು
ಯಲಹ
ಬೆಂ. ಮ.

Depth 6	Contents 7	Reference to last Measurement 8
=	15.00 Rmt	
=	60.00 Rmt	
Total =	912.00 Rmt	
=	400.00 Rmt	
	Rs 42000.00	
y with selected available thority condition in layers u supply earth with a		
=	180.00 Cum	
	Rs 9180.00	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 195370

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
37)	providing and fixing in position brass gate valve with C.I wheel of approved quality (Screwed end) 80mm nominal bore including cost of all materials, labour and HOM	2Nos @ Rs 1265.00				Rs 30360.00	
						Total Rs	1354840.00
						Zadha AE 6/4/17	

C & F Measured

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು, ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-97.

Verified ₹ 30/00

ಸ.ಲೆ.(ಪಾ.ಎ)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate:-						
	Certified that the above work done satisfactory and no-materials issued from departmentally						
	Sudha AE 8/4/17						
	ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-97						
	Accepted all the measurement with full - and final settlement.						

Serial No.....

Name of work.....

Name of Contractor of nature of Age

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	13.27
	(Rs Twelve Lakhs forty-s seventeenhundred fifty on
	30/6.

epth 6	Contents 7	Reference to last Measurement 8
	Satisfactory and	
	ally	
-		

BRNO: 170/30.6.2017.

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 195371

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	13,27743-00 80992-00 1246751-00 (Rs Twelve Lakhs forty six thousand seven hundred fifty one only) 30/6.					Total Rs 1327743-00 ST - 13277-00 VAT - 53110-00 Cess - 13277-00 CBF - 1328-00 Adj. 80992-00 Chqn: 1246751-00	